



Brass

## Triton CDS (T3CDS) Flameproof Ex d, Increased Safety Ex e and Restricted Breathing Ex nR Cable Gland

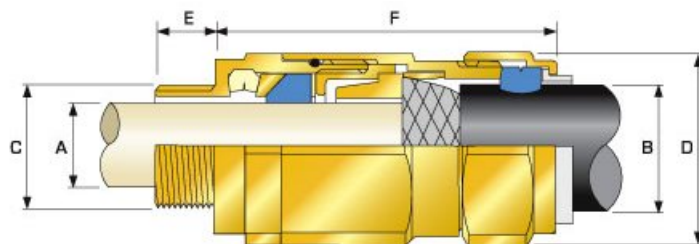
CMP Triton CDS Type T3CDS Triple Certified Flameproof (Type 'd'), Increased Safety (Type 'e') and Restricted Breathing (Type 'nR') indoor and outdoor cable gland for use in Zone 1, Zone 2, Zone 21 and Zone 22 Hazardous Areas with all types of armoured cable providing a Flameproof seal on the cable inner bedding and an environmental seal on the cable outer sheath.

All CMP Cable Glands are EMC Tested.

This product utilises a unique Compensating Displacement Seal (CDS) system which provides full compatibility with Restricted Breathing equipment that rely upon flammable gases being excluded from the main enclosure.

The cable gland provides mechanical cable retention and electrical continuity via armour wire termination. A reversible armour cone and AnyWay universal clamping ring arrangement allows the cable to be easily disconnected from the equipment, for maintenance and change out etc., and re-connected with the same consummate ease. This feature also facilitates remote make off procedures when the termination is to be conducted in confined spaces or in areas of restricted access. Separate tightening actions for the inner compensating displacement seal (CDS) system and the armour termination affords maximum control over the pressure applied to the cable inner bedding.

The CMP Triton CDS Cable Gland is suitable for use with all forms of equipment protection permitted in Zone 1, Zone 2, Zone 21 & Zone 22 provided always that the prevailing code of practice for selection, installation and maintenance is observed, e.g. IEC 60079-14.



# Cable Gland Selection Table

Cable Gland Size	Available Entry Threads "C"			Min Thread Length "E"	Cable Bedding Diameter "A"		Overall Cable Diameter "B"		Armour Range +				Across Flats "D"	Across Corners "D"	Protrusion Length "F"	Ordering Reference (Brass Metric) #	Cable Gland Weight (Kgs)
	Standard		Option		Min	Max	Min	Max	Grooved Cone		Stepped Cone		Max	Max			
	Metric	NPT	NPT						Min	Max	Min	Max					
20S/16	M20	1/2"	3/4"	15.0	3.1	8.7	6.1	13.2	0.0	1.0	0.9	1.25	24.0	25.9	70.0	20S16T3CDS1RA	0.170
20S	M20	1/2"	3/4"	15.0	6.1	11.7	9.5	15.9	0.0	1.0	0.9	1.25	24.0	25.9	70.0	20ST3CDS1RA	0.170
20	M20	1/2"	3/4"	15.0	6.5	14.0	12.5	20.9	0.0	1.0	0.9	1.25	30.5	32.9	72.0	20T3CDS1RA	0.256
25S	M25	3/4"	1"	15.0	11.0	20.0	14.0	22.0	0.0	1.0	1.25	1.6	37.5	40.5	82.0	25ST3CDS1RA	0.384
25	M25	3/4"	1"	15.0	11.0	20.0	18.2	26.2	0.0	1.0	1.25	1.6	37.5	40.5	82.0	25T3CDS1RA	0.379
32	M32	1"	1 1/4"	15.0	17.0	26.3	23.7	33.9	0.0	1.0	1.6	2.0	46.0	49.7	85.0	32T3CDS1RA	0.560
40	M40	1 1/4"	1 1/2"	15.0	22.0	32.2	27.9	40.4	0.0	1.0	1.6	2.0	55.0	59.4	86.0	40T3CDS1RA	0.848
50S	M50	1 1/2"	2"	15.0	29.5	38.2	35.2	46.7	0.0	1.0	2.0	2.5	60.0	64.8	98.0	50ST3CDS1RA	1.055
50	M50	2"	2 1/2"	15.0	35.6	44.1	40.4	53.1	0.0	1.0	2.0	2.5	70.0	75.6	100.0	50T3CDS1RA	1.521
63S	M63	2"	2 1/2"	15.0	40.1	50.0	45.6	59.4	0.0	1.0	2.0	2.5	75.0	81.0	108.0	63ST3CDS1RA	1.750
63	M63	2 1/2"	3"	15.0	47.2	56.0	54.6	65.9	0.0	1.0	2.0	2.5	80.0	86.4	103.0	63T3CDS1RA	1.685
75S	M75	2 1/2"	3"	15.0	52.8	62.0	59.0	72.1	0.0	1.0	2.5	3.0	89.0	96.1	105.0	75ST3CDS1RA	2.345
75	M75	3"	3 1/2"	15.0	59.1	68.0	66.7	78.5	0.0	1.6	2.5	3.0	99.0	106.9	114.0	75T3CDS1RA	3.200
90	M90	3"	3 1/2"	15.0	66.6	80.0	76.2	90.4	0.0	1.6	3.15	4.0	114.0	123.1	140.0	90T3CDS1RA	5.100
100	M100	4"	4 1/2"	15.0	76.0	91.0	86.1	101.5	0.0	1.6	3.15	4.0	123.0	132.8	170.0	100T3CDS1RA	6.500
115	M115	4 1/2"	5"	15.0	86.0	98.0	101.5	110.3	0.0	1.6	3.15	4.0	133.4	144.1	210.0	115T3CDS1RA	7.000
130	M130	5"	6"	15.0	97.0	115.0	114.2	123.3	0.0	1.6	3.15	4.0	146.1	157.8	250.0	130T3CDS1RA	7.800

Dimensions are displayed in millimetres unless otherwise stated

**NOTE:** +Alternative armour clamping range available for non-standard armour sizes. # Other thread forms are available.

Cable Gland Size	Available Entry Threads "C"			Min Thread Length "E"	Cable Bedding Diameter "A"		Overall Cable Diameter "B"		Armour Range +				Across Flats "D"	Across Corners "D"	Protrusion Length "F"	Ordering Reference (Brass Metric) #	Cable Gland Weight (Ozs)
	Standard		Option		Min	Max	Min	Max	Grooved Cone		Stepped Cone		Max	Max			
	Metric	NPT	NPT						Min	Max	Min	Max					
20S/16	M20	1/2"	3/4"	0.591	0.122	0.343	0.240	0.519	0.000	0.039	0.035	0.049	0.945	1.020	2.756	20S16T3CDS1RA	6.00
20S	M20	1/2"	3/4"	0.591	0.240	0.461	0.374	0.626	0.000	0.039	0.035	0.049	0.945	1.020	2.756	20ST3CDS1RA	6.00
20	M20	1/2"	3/4"	0.591	0.256	0.551	0.492	0.823	0.000	0.039	0.035	0.049	1.201	1.295	2.835	20T3CDS1RA	9.03
25S	M25	3/4"	1"	0.591	0.433	0.787	0.551	0.866	0.000	0.039	0.049	0.063	1.476	1.594	3.228	25ST3CDS1RA	13.55
25	M25	3/4"	1"	0.591	0.433	0.787	0.717	1.031	0.000	0.039	0.049	0.063	1.476	1.594	3.228	25T3CDS1RA	13.37
32	M32	1"	1 1/4"	0.591	0.669	1.035	0.933	1.335	0.000	0.039	0.063	0.078	1.811	1.957	3.346	32T3CDS1RA	19.75
40	M40	1 1/4"	1 1/2"	0.591	0.866	1.268	1.098	1.591	0.000	0.039	0.063	0.078	2.165	2.339	3.386	40T3CDS1RA	29.91
50S	M50	1 1/2"	2"	0.591	1.161	1.504	1.386	1.839	0.000	0.039	0.078	0.098	2.362	2.551	3.858	50ST3CDS1RA	37.21
50	M50	2"	2 1/2"	0.591	1.402	1.736	1.591	2.091	0.000	0.039	0.079	0.098	2.756	2.976	3.937	50T3CDS1RA	53.65
63S	M63	2"	2 1/2"	0.591	1.578	1.969	1.795	2.339	0.000	0.039	0.079	0.098	2.953	3.189	4.252	63ST3CDS1RA	61.73
63	M63	2 1/2"	3"	0.591	1.858	2.205	2.150	2.594	0.000	0.039	0.079	0.098	3.150	3.402	4.055	63T3CDS1RA	59.44
75S	M75	2 1/2"	3"	0.591	2.078	2.441	2.323	2.839	0.000	0.039	0.098	0.118	3.504	3.783	4.134	75ST3CDS1RA	82.72
75	M75	3"	3 1/2"	0.591	2.326	2.677	2.626	3.091	0.000	0.063	0.098	0.118	3.898	4.209	4.488	75T3CDS1RA	112.88
90	M90	3"	3 1/2"	0.591	2.622	3.148	3.000	3.559	0.000	0.063	0.124	0.157	4.488	4.846	5.512	90T3CDS1RA	179.90
100	M100	4"	4 1/2"	0.591	2.992	3.583	3.390	3.996	0.000	0.063	0.124	0.157	4.843	5.228	6.693	100T3CDS1RA	229.28
115	M115	4 1/2"	5"	0.591	3.386	3.858	3.996	4.343	0.000	0.063	0.124	0.157	5.252	5.673	8.268	115T3CDS1RA	246.92
130	M130	5"	6"	0.591	3.819	4.528	4.496	4.854	0.000	0.063	0.124	0.157	5.752	6.213	9.843	130T3CDS1RA	275.14

Dimensions are displayed in inches unless otherwise stated

**NOTE:** +Alternative armour clamping range available for non-standard armour sizes. # Other thread forms are available.

# TECHNICAL DATA

cCSAus Approval Certificate No.	<a href="#">1310517</a>
cCSAus Code of Protection Category	Class I, Div 2, Groups ABCD; Class II, Div 2, Groups EFG; Class III; Ex d IIC; Ex e II; Class I, Zone 1, AEx d IIC; Class I, Zone 1, AEx e II
cCSAus Compliance Standards	CAN/CSA-C22.2 No 0-M91, CAN/CSA-C22.2 No 18-04, CAN/CSA-C22.2 No 25-1966, CAN/CSA-C22.2 No 30-M1986, CAN/CSA-C22.2 No 174-M1984, CAN/CSA-C22.2 No 94-M91, CAN/CSA-E60079-0:07, CAN/CSA-E60079-7:07, CAN/CSA-E60079-1:07, ANSI/UL 514B Edition 5, ANSI/UL 50 Edition 11, ANSI/UL 2225 Edition 4, UL60079-0:07, UL60079-7:07, UL60079-1:07
GOST R Certificate Number	<a href="#">POCC GB.HO06.B00207</a>
GOST R Code of Protection Category	Ex d IIC / Ex e II / DIP A21
GOST R Compliance Standards	ГОСТ P 52350.0-2005, ГОСТ P 52350.1-2005, ГОСТ P 52350.7-2005, ГОСТ МЭК 61241-1-1-99
GOST GGTN Permit	<a href="#">PPC 00-40706</a>
GOST K Certificate Number	<a href="#">KZ 75000361 01 01 14761</a>
RoK Permit For Use Number	<a href="#">19-02-UL-1957</a>
Lloyds Approval No.	<a href="#">01/00172</a>
DNV Approval No.	<a href="#">E-10496</a>
ABS Approval No.	<a href="#">01-LD234401A/2-PDA</a>
NEPSI Certificate Number	<a href="#">GYJ081070</a>
NEPSI Code of Protection Category	Ex d IIC, Ex e II, Ex nR II, DIP A21 TA
NEPSI Compliance Standards	GB3836.1/2/3, GB3836.8-2003, GB12476.1-2000
INMETRO Approval Number	<a href="#">MC-AEX-7041-X</a>
INMETRO Code of Protection Category	BR-Ex d IIC / BR-Ex e II
INMETRO Compliance Standards	ABNT NBR IEC 60079-0:2006, ABNT NBR IEC 60079-1:2007, ABNT NBR IEC 60079-7:2001 e ABNT NBR IEC 60528:2005
RETIE Approval Number	<a href="#">03866</a>
Type	T3CDS
Design Specification	<a href="#">BS 6121:Part 1:1989</a> , <a href="#">EN 50262:1999</a> , UL 514B
ATEX Certification Detail	<a href="#">SIRA06ATEX1283X</a> , <a href="#">SIRA07ATEX4328X</a>
ATEX Code of Protection Category	ATEX II 2 GD, Ex d IIC, Ex e II, Ex tD A21 IP66, ATEX II 3 G Ex nR II
ATEX Compliance Standards	EN 60079-0, EN 60079-1, EN 60079-7, EN 60079-15, IEC 61241-0, IEC 61241-1
IEC Ex Certification Detail	<a href="#">IECEx SIR 07.0005X</a>
IEC Ex Code of Protection Category	Ex d IIC, Ex e II, Ex nR II, Ex tD A21 IP66
IEC Ex Compliance Standards	IEC 60079-0, IEC 60079-1, IEC 60079-7, IEC 60079-15, IEC 61241-0, IEC 61241-1
Continuous Operating Temperature	-60°C to +130°C
Ingress Protection Rating	IP66, IP67, IP68
Deluge Protection Compliance	<a href="#">DTS01 : 91</a>
Deluge Protection Document	<a href="#">ITS 01005029 - D</a>
EMC Test Information	<a href="#">EMC Test Report DUR23743</a>
Cable Gland Material	Brass, Electroless Nickel Plated Brass, Aluminium, Stainless Steel
Seal Material	CMP SOLO LSF Thermoplastic Elastomer
Cable Type	Aluminium Strip Armour (ASA), Screened Flexible Wire Braid (e.g. CY / SY), Single Wire Armour (SWA), Aluminium Wire Armour (AWA), Pliable Wire Armour (PWA), Steel Tape Armour (STA), Wire Braid Armour (e.g. SWB), Armored & Jacketed
Armour Clamping	Reversible Armour Cone & AnyWay Universal Clamping Ring
Sealing Technique	CMP Inner Compensating Displacement Seal System (CDS) & Outer Load Retention Seal (LRS)
Sealing Area(s)	Cable Inner Bedding & Outer Cable Sheath
Accessories	<a href="#">Adaptor/Reducer</a> , <a href="#">Earth Tag</a> , <a href="#">Locknut</a> , <a href="#">Serrated Washer</a> , <a href="#">Entry Thread Seal</a> , <a href="#">Shroud</a>

**Note:** Versions with dedicated braid armour cones also available.

The Stepped side of the cone is suitable for SWA cables, and the Grooved side of the cone is suitable for all other approved armoured cables.

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